

ABSTRACT

Dicky Satrio Nurwiratmoko, 49124536.T, 2017, "Identification of the causes Inhibition inlet fuel gas at SOGAV DFDE in LNG / C Tangguh Palung with Fault Tree Analysis Method" D IV Program, Technical Department, Semarang Merchant Marine Polytechnic, Supervisor I : Agus Hendro Waskito, M.M., M.Mar., Supervisor II: Capt, Agus Hadi Purwantomo, M.Mar.

Solenoid Operated Gas Admission Valve is the most important part in the engine Dual Fuel Diesel Engine, which serves as a regulator of the amount and quality of fuel gas into the combustion chamber, while the irregularities performance SOGAV for writers implementing the practice of the ocean is often the case that the engine trip on DFDE, DFDE can not be changed from MGO fuel to gas fuel, and excessive use of MGO. The purpose of this study to determine the factors SOGAV damage, impact damage SOGAV, efforts to overcome the existing obstacles.

This study used descriptive qualitative method. The collection of data used in this study by observation, interviews, literature review, and documentation. The observations were made by addressing the direct object under investigation, but it wawancara dilakukan with the speaker of the parties involved in the research, and supported with data pengumpulan owned by LNG / C Tough Palungyang then analyzed by the method of fault tree analysis.

The results obtained show that inhibition of fuel gas in SOGAV DFDE is factor filter SOGAV dirty or the excess hours of work and the factors moving metering plate is not working properly consequently breakage or decline in violent spring, there are scratches or lebihnya hours solenoid assembly-E core, breakage parts moving metering plate, of these factors impact occurs that engine trip on DFDE, the failure of the replacement fuel of MGO into fuel gas and the use of MGO excessive, while efforts should be made to perform maintenance, repair the unit SOGAV corresponding manual book or in accordance with PMS and operation are procedural.

Keywords: Fracture Plate Move Metering on SOGAV (Solenoid Operated Gas Admission Valve), two types of fuel Diesel engine (Dual Fuel Diesel Engine).